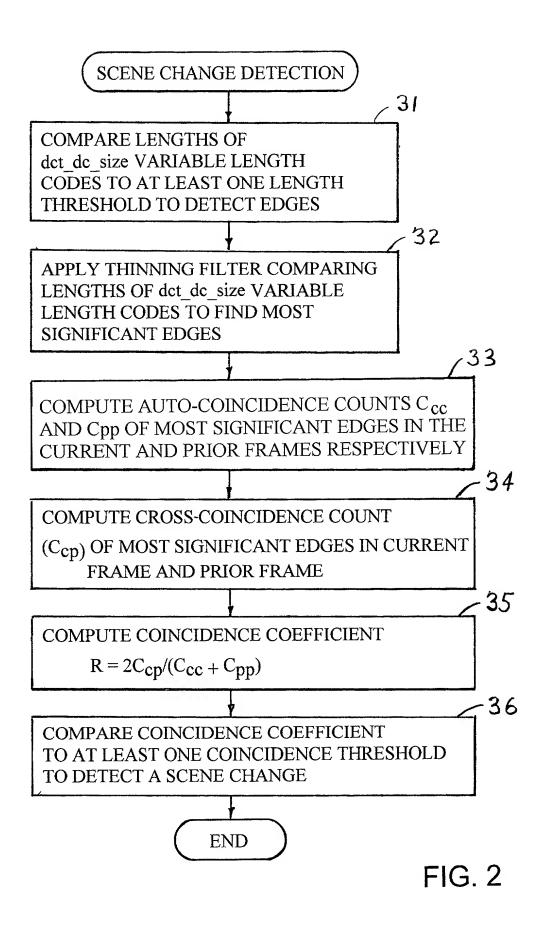


FIG. 1



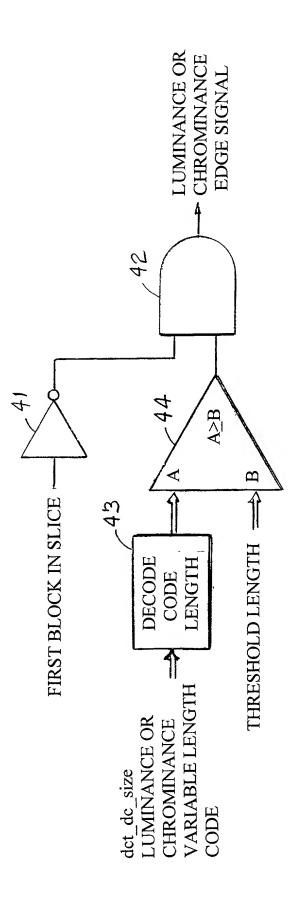
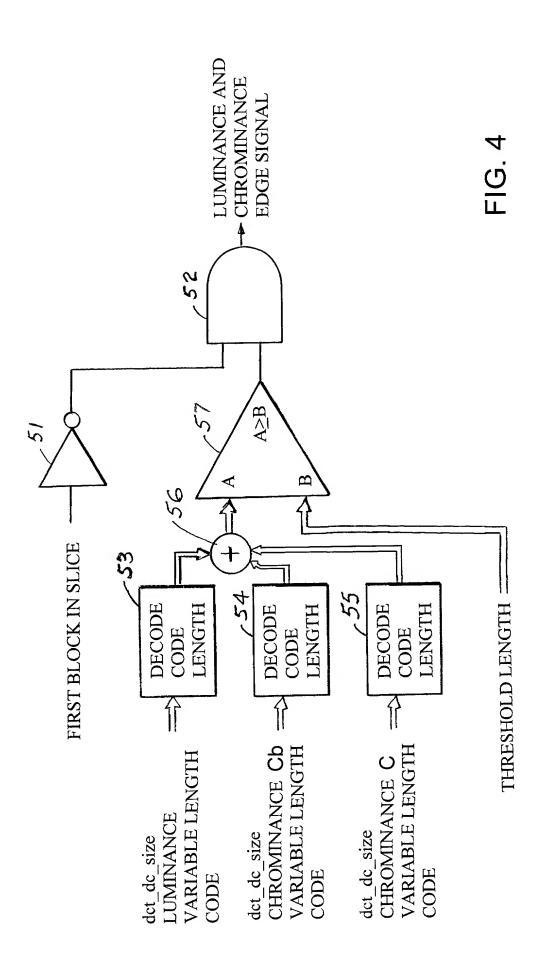


FIG. 3



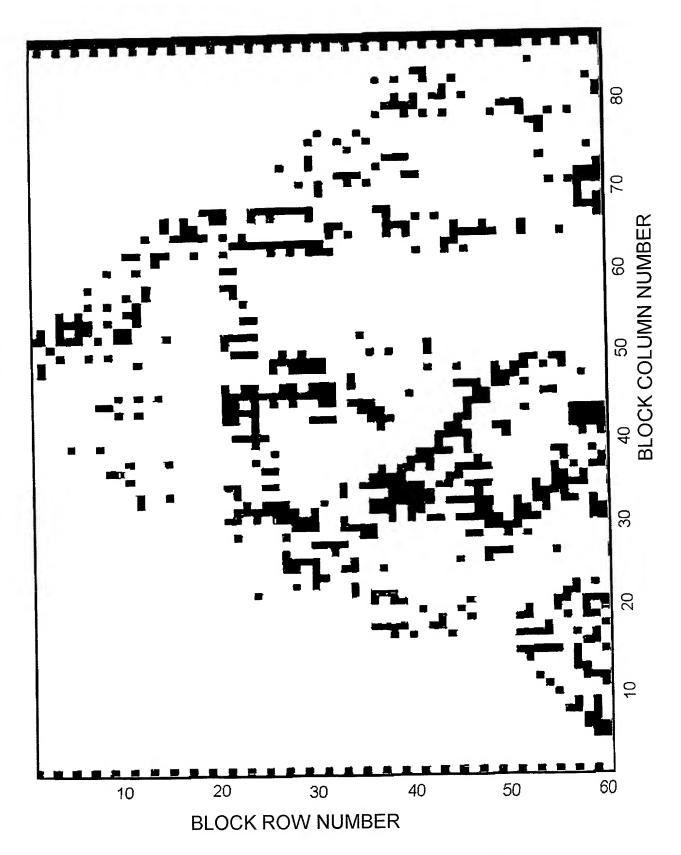


FIG. 5

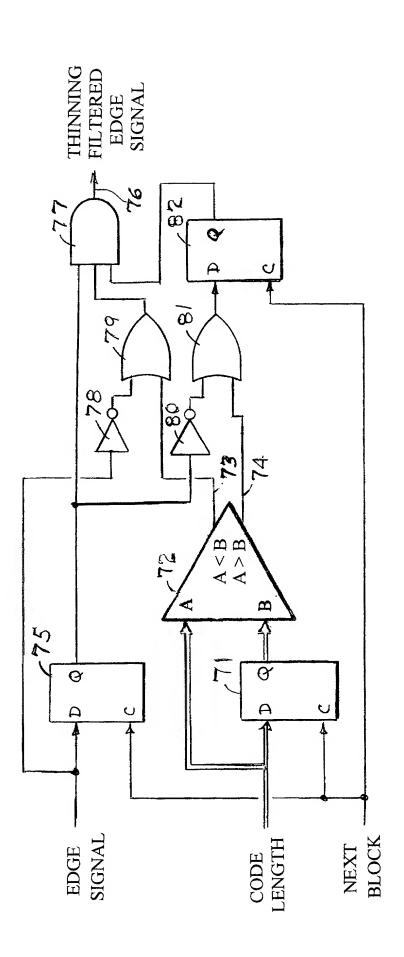
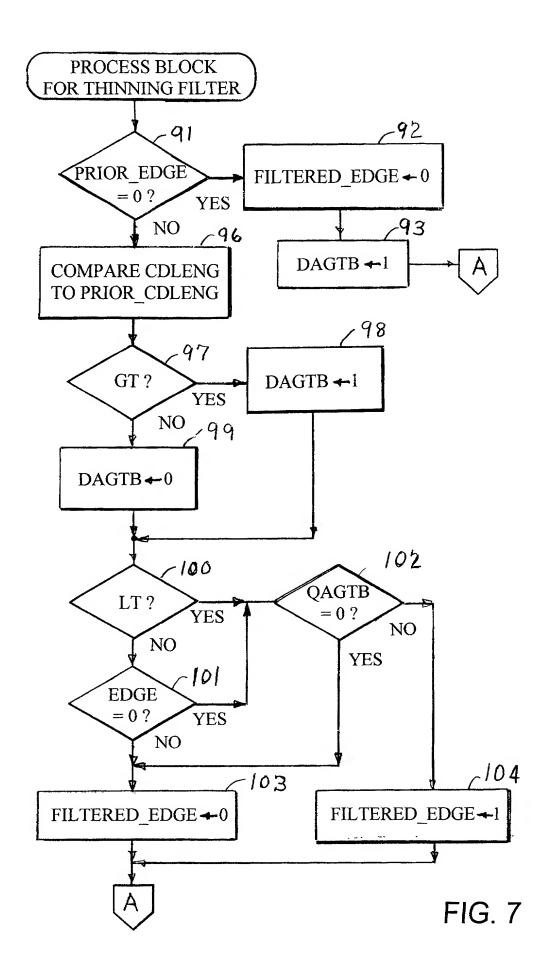


FIG. 6



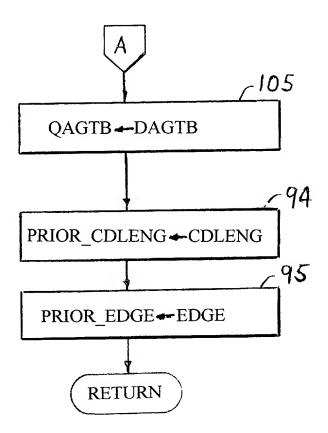
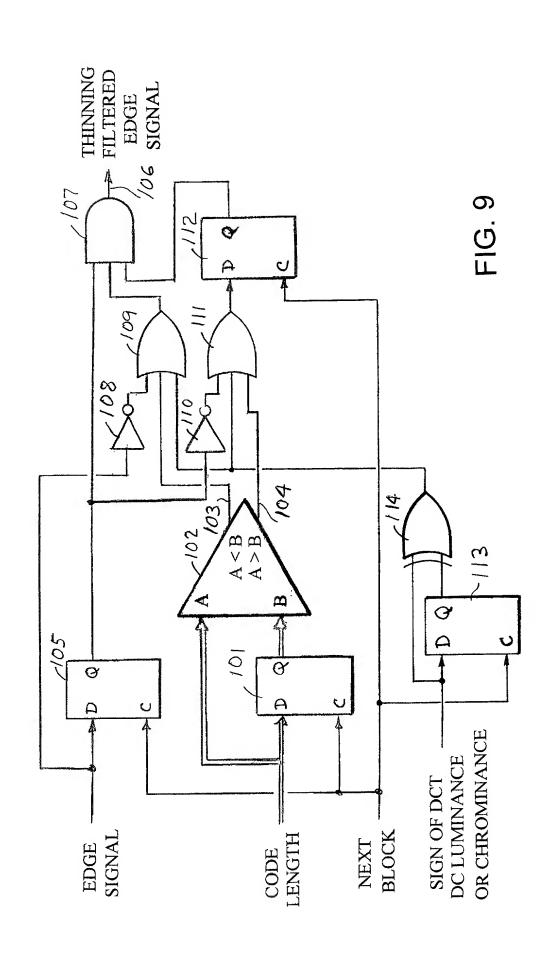
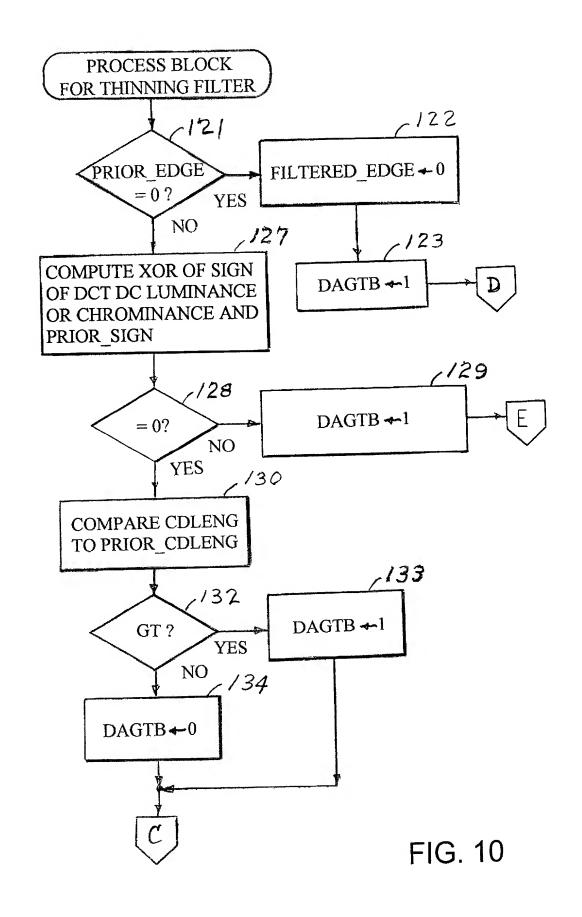
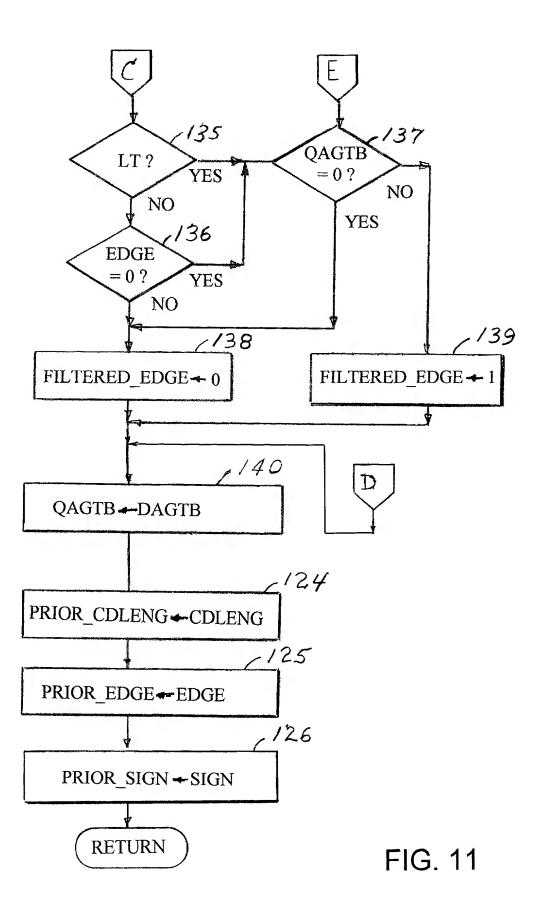


FIG. 8







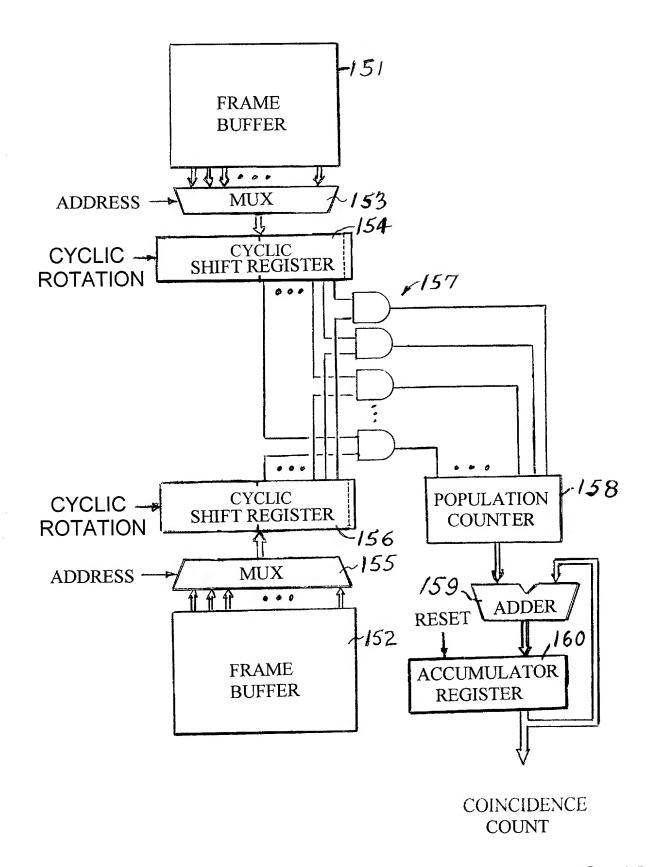


FIG. 12

AUTO-COINCIDENCE MATRIX COMPARISON

COMPUTE AUTO-COINCIDENCE MATRIX $C_{c(M,N)}$ FOR CURRENT FRAME

COMPUTE COEFFICIENT OF VARIANCE BETWEEN THE AUTO-CONICIDENCE MATRIX FOR THE CURRENT FRAME AND THE AUTO-COINCIDENCE MATRIX FOR THE PRIOR FRAME

$$R_{C} = \frac{2 \sum_{m, n}^{2} (C_{c(m,n)} - C_{p(m,n)})^{2}}{\sum_{m, n} (C_{c(m,n)}^{2} + C_{p(m,n)}^{2})}$$

SAVE THE AUTO-COINCIDENCE MATRIX OF THE CURRENT FRAME AS THE AUTO-COINCIDENCE MATRIX FOR THE PRIOR FRAME TO BE USED WHEN PROCESSING THE NEXT FRAME

COMPARE THE COEFFICIENT OF VARIANCE BETWEEN THE AUTO-CONICIDENCE MATRICES TO A THRESHOLD TO DETECT A SCENE CHANGE

END

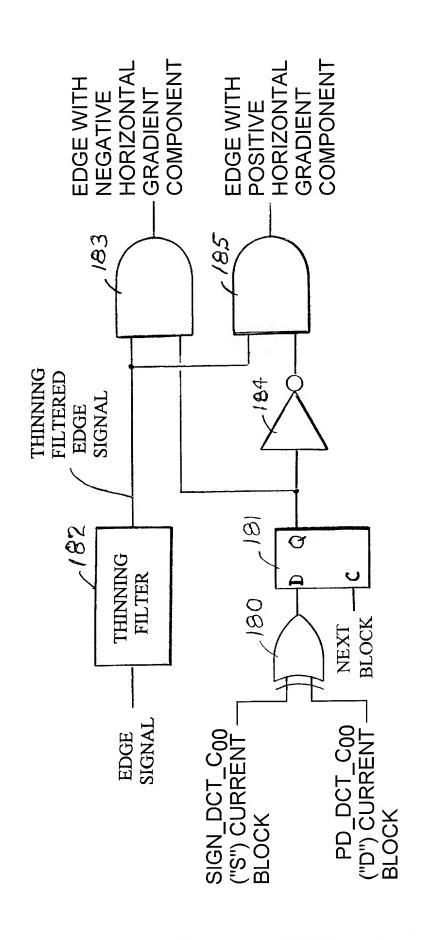


FIG. 14

(4:2:0) CHROMINANCE (Cb AND Cr)

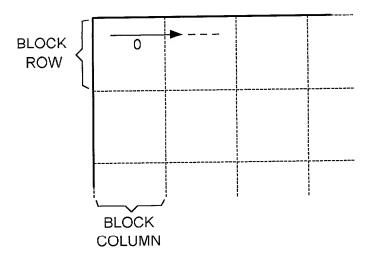


FIG. 15

(4:2:2) CHROMINANCE (Cb AND Cr)

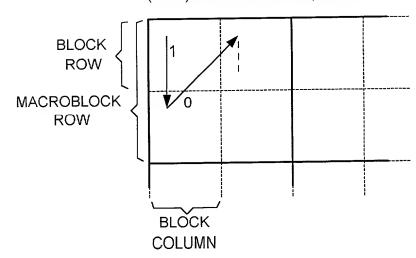


FIG. 16

(4:4:4, 4:2:2, AND 4:2:0) LUMINANCE AND (4:4:4) CHROMINANCE (Cb AND Cr)

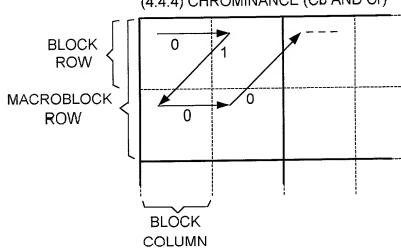
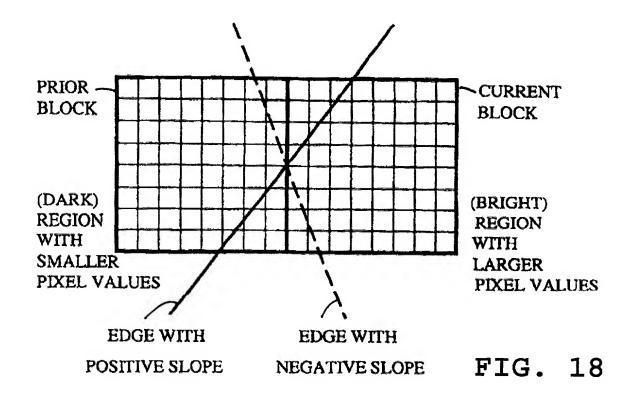
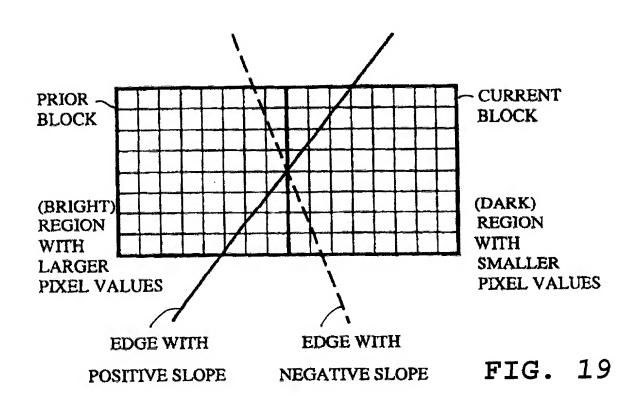
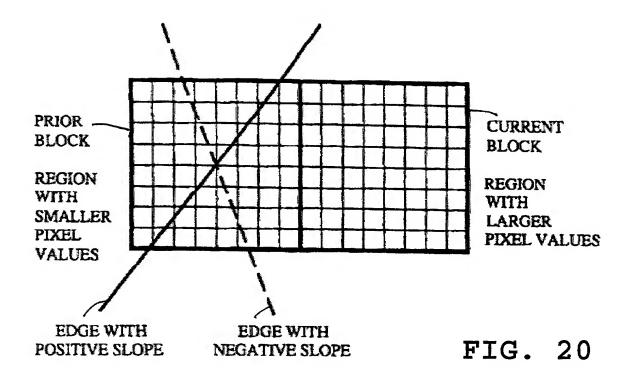
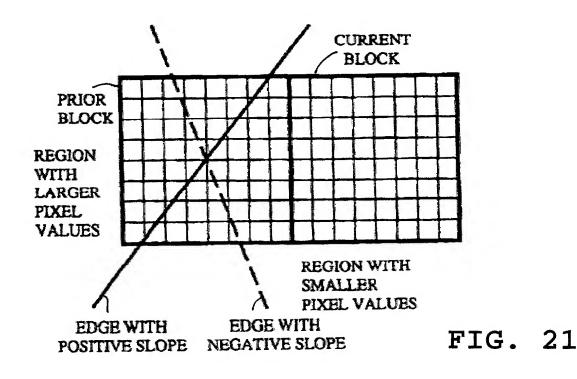


FIG. 17









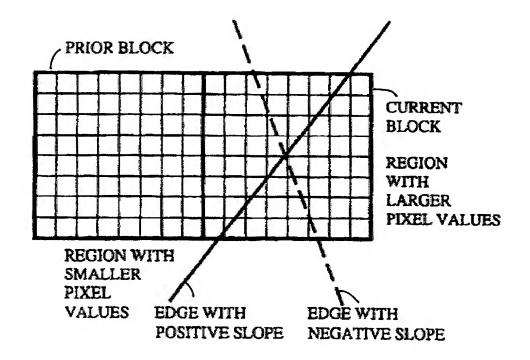


FIG. 22

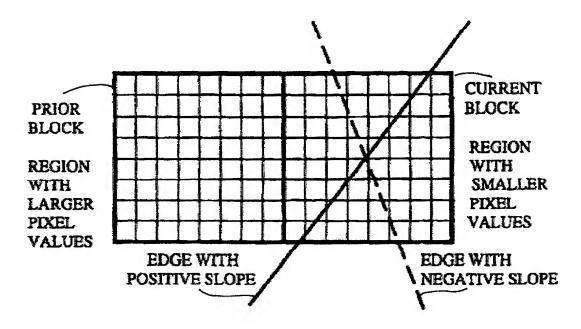


FIG. 23

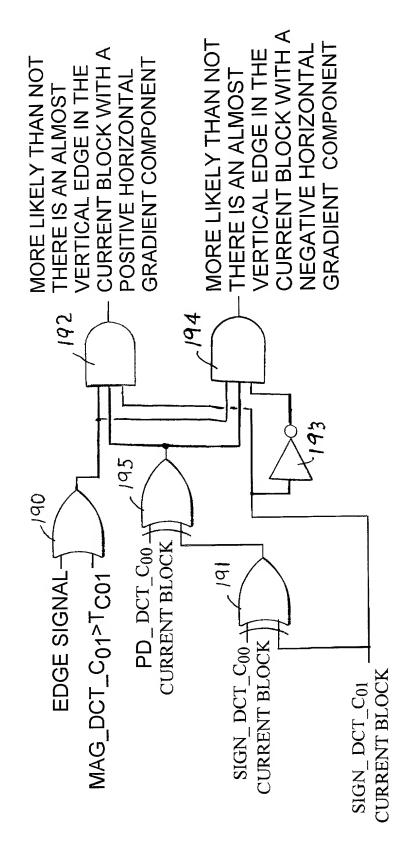


FIG. 24

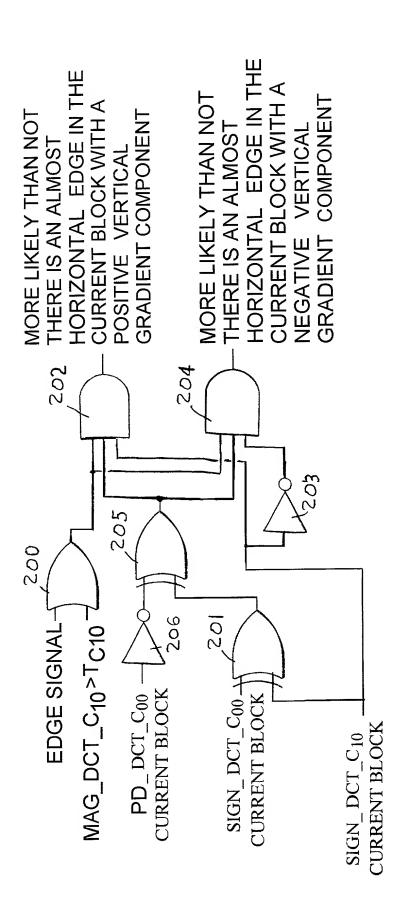


FIG. 25

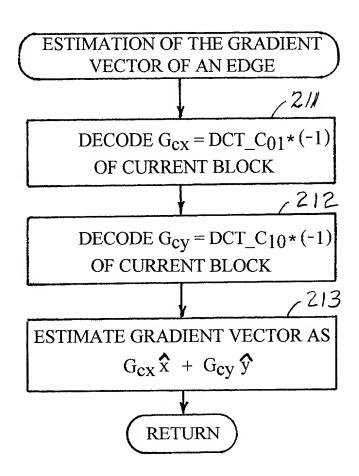


FIG. 26